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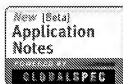
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Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 59, Citation

In this article we develop a novel graph-based approach toward network forensics. Our approach is the evidence graph model that facilitates evidence presentation and reasoning. Based on the evidence graph, we propose a hierarchical reasoning ...

Keywords: evidence graph, hierarchical reasoning, network forensics

14 [Proceedings of the 6th ACM international conference on Image and Video Retrieval](#)

 Nicu Sebe, Marcel Worring

July 2007 CIVR '07: Proceedings of the 6th ACM international conference on Image and Video Retrieval
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the ACM International Conference on Image and Video Retrieval. In previous editions, the CIVR conference has now become an official ACM Conference. The conference is one of the most important and influential ...

15 [Continuous nearest neighbor monitoring in road networks](#)

Kyriakos Mouratidis, Man Lung Yu, Dimitris Papadias, Nikos Mamoulis

September 2006 VLDB '06: Proceedings of the 32nd international conference on Very Large Databases
Publisher: VLDB Endowment


Full text available:  Pdf (809.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 123, Citation

Recent research has focused on continuous monitoring of nearest neighbor queries in dynamic scenarios, where the queries and the data objects move frequently and the distance metric is not necessarily the Euclidean distance metric. In ...

16 [CarTel: a distributed mobile sensor computing system](#)

 Bret Hull, Vladimir Bzhokovsky, Yang Zhang, Kevin Chen, Michael Goraczko, Balakrishnan, Samuel Madden

October 2006 SenSys '06: Proceedings of the 4th international conference on Sensor Networks, Systems, and Applications
Publisher: ACM

Full text available:  Pdf (2.04 MB)


Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 448, Citation

CarTel is a mobile sensor computing system designed to collect, process sensors located on mobile units such as automobiles. A CarTel node is a coupled to a set of sensors. Each node gathers ...


Keywords: data management, data visualization, implementation, inter query processing, sensor networks

17 [Attested append-only memory: making adversaries stick to their word](#)

 Byung-Gon Chun, Petros Maniatis, Scott Shenker, John Kubiatowicz

October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium principles

Publisher: ACM

Full text available:  Pdf (361.31 KB) Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 130, Citation


Researchers have made great strides in improving the fault tolerance of systems against arbitrary (Byzantine) faults. However, there are hard lin with entirely untrusted components; for example, ...

Keywords: attested append-only memory, byzantine-fault tolerance, ec machines, shared storage

Also published in:

October 2007 SIGOPS Operating Systems Review Volume 41 Issue 6

18 [Communications of the ACM: Volume 51 Issue 7](#)


 July 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition,  Pdf (6.54 MB) Additional Information: full citation


Bibliometrics: Downloads (6 Weeks): 4977, Downloads (12 Months): 6313, Cit

19 [Towards understanding IT security professionals and their tools](#)

 David Botia, Rodrigo Werlinger, André Gagné, Konstantin Beznosov, Lee Iv

July 2007 SOUPS '07: Proceedings of the 3rd symposium on Usable priv

Publisher: ACM


Full text available:  Pdf (272.99 KB) Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 485, Citation


We report preliminary results of our ongoing field study of IT professionals management. We interviewed a dozen practitioners from five organizatic workplace and tools. We analyzed the interviews using ...

Keywords: collaboration, ethnography, security management, security 1 security

20 [Abstraction-based intrusion detection in distributed environments](#)

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 Transactions on Information and System Security (TISSEC)
Publisher: ACM

Full text available:  Pdf (590.61 KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citations: 1

Abstract: Abstraction is an important issue in intrusion detection, since it not only allows for the analysis of heterogeneous systems, but also allows generic intrusion-detection models to be developed that are less error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection

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[Vlad Gorelik](#)

 February 2007 [Queue](#) , Volume 5 Issue 1

Publisher: ACM

Full text available: [HTML](#) (19.93 KB), [PDF](#) (819.03 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 167, Citation

Security vulnerabilities abound, but a few simple steps can minimize you

2 [A framework for constructing features and models for intrusion detec](#)
[Wenke Lee, Salvatore J. Stolfo](#)

 November 2000 [Transactions on Information and System Security \(TI](#)

Publisher: ACM

Full text available: [PDF](#) (187.03 KB) Additional Information: [full citation](#), [abstract](#), i

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 585, Citation

Intrusion detection (ID) is an important component of infrastructure prot
detection systems (IDSs) need to be accurate, adaptive, and extensible.
the complexities of today's network environments, ...

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Keywords: data mining, feature construction, intrusion detection

3 [Communications of the ACM: Volume 51 Issue 11](#)
 November 2008 [Communications of the ACM](#)

Publisher: ACM

Full text available: [Digital Edition](#) , [PDF](#) (8.26 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 8046, Downloads (12 Months): 8046, Cit

4 [Towards understanding IT security professionals and their tools](#)
[David Botta, Rodrigo Werlinger, André Gagné, Konstantin Beznosov, Lee Iv](#)
 July 2007 [SOUPS '07: Proceedings of the 3rd symposium on Usable priv](#)
 Publisher: ACM
Full text available: [PDF](#) (272.99 KB) Additional Information: [full citation](#), [abstract](#), i

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 485, Citation

We report preliminary results of our ongoing field study of IT professio

management. We interviewed a dozen practitioners from five organizatic workplaces and tools. We analyzed the interviews using ...

Keywords: collaboration, ethnography, security management, security 1 security

5 Cybercrime, identity theft, and fraud: practicing safe internet - network vulnerabilities



Robert C. Newman

September 2006 InfoSecCD '06: Proceedings of the 3rd annual conference curriculum development

Publisher: ACM

Full text available: Pdf (123.56 KB)

Additional Information: [full citation](#), [abstract](#), r

Bibliometrics: Downloads (6 Weeks): 142, Downloads (12 Months): 1116, Cita

Computer networks and computer systems are experiencing attacks and Threats are also extended to include the individual user's computer asse will be presented on the categories of security and privacy ...

Keywords: cybercrime, identity theft, internet fraud

6 Anomalous system call detection



Darren Mutz, Fredrik Valeur, Giovanni Vigna, Christopher Kruegel

February 2006 Transactions on Information and System Security (TIS Publisher: ACM

Full text available: Pdf (645.58 KB)

Additional Information: [full citation](#), [abstract](#), r

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 334, Citation

Intrusion detection systems (IDSs) are used to detect traces of malicious network and its resources. Anomaly-based IDSs build models of the expected analyzing events that are generated during ...

Keywords: Bayesian network, Intrusion detection, anomaly detection, c

7 Communications of the ACM: Volume 51 Issue 10



October 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (7.16 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 11810, Downloads (12 Months): 11810, (

8 Security as a new dimension in embedded system design



Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan / Srivaths Ravu

June 2004 DAC '04: Proceedings of the 41st annual conference on Design Publisher: ACM

Full text available: Pdf (209.10 KB)

Additional Information: [full citation](#), [abstract](#), r

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 417, Citation

The growing number of instances of breaches in information security in a compelling case for efforts towards secure electronic systems. Embedded ubiquitously used to capture, store, manipulate, and ...

Keywords: PDAs, architectures, battery life, cryptography, design, design management, embedded systems, performance, security, security process, sensors, software attacks, tamper resistance, trusted computing, viruses

9 [Abstraction-based intrusion detection in distributed environments](#)

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 Transactions on Information and System Security (TISSEC)
Publisher: ACM


Full text available:  Pdf (590.61 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citations: 1



Abstraction is an important issue in intrusion detection, since it not only applies to heterogeneous systems, but also allows generic intrusion-detection model. It is an error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection

10 [Communications of the ACM: Volume 51 Issue 5](#)


 May 2008 Communications of the ACM


Publisher: ACM

Full text available:  Digital Edition,  Pdf (7.28 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 551, Downloads (12 Months): 1464, Citations: 1

11 [Testing intrusion detection systems: a critique of the 1998 and 1999 system evaluations as performed by Lincoln Laboratory](#)

 November 2000 Transactions on Information and System Security (TISSEC)
Publisher: ACM


Full text available:  Pdf (156.16 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 410, Citations: 1

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comprehensive evaluation of intrusion detection systems (IDSs) developed under DARPA funding. When significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating characteristic


12 [interactions: Volume 15 Issue 4](#)

 July 2008 interactions

Publisher: ACM



Full text available:  Digital Edition,  Pdf (5.84 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

Bibliometrics: Downloads (6 Weeks): 206, Downloads (12 Months): 542, Citations: 1


-  [Proceedings of the conference on Design, automation and test in Eu](#)
Donatella Sciuto
March 2008 DATE '08: Proceedings of the conference on Design, automatic
Publisher: ACM
Additional Information: [full citation](#), [abstract](#)



Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the DATE 08 Conference Proceedings. DATE combines the w
systems design conference and Europe's leading international exhibition
automation and test, from system level hardware and software ...

- 14 [Risks to the public](#)
 Peter G. Neumann
July 2005 SI GSOFT Software Engineering Notes , Volume 30 Issue 4
Publisher: ACM
Full text available:  Pdf (151.77 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 304, Citation



Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of th
and Public Policy), plus personal contributions by others, as indicated. O
rather than organizational, and all of the usual ...

- 15 [Selling in the era of the "Net": integration of electronic commerce in s](#)
William J. Kettinger, Gary Hackbarth
December 1997 ICI S '97: Proceedings of the eighteenth international confe
Publisher: Association for Information Systems
Full text available:  Pdf (70.91 KB) Additional Information: [full citation](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation C

- 16 [Passive network forensics: behavioural classification of network host](#)
[patterns](#)
 John McHugh, Ron McLeod, Vagishwar: Nagaonkar
April 2008 SI GOPS Operating Systems Review , Volume 42 Issue 3
Publisher: ACM
Full text available:  Pdf (2.40 MB) Additional Information: [full citation](#), [abstract](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 158, Citation

Passive monitoring of the data entering and leaving an enterprise networ
forensic objectives. We have developed analysis techniques for NetFlow
identification and can confirm individual host roles and ...

Keyw ords: behaviour, forensic, intrusion detection, intrusion prevention
peer-to-peer, propagation prevention, security, traffic, virus, worm

- 17 [Puppetnets: misusing web browsers as a distributed attack infrastruc](#)
 V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnostakis
October 2006 CCS '06: Proceedings of the 13th ACM conference on Comput
Publisher: ACM
Full text available:  Pdf (871.35 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 420, Citation

Most of the recent work on Web security focuses on preventing attacks t
host machine and user. In this paper we attempt to quantify the threat c
misused for attacking third parties. ...

Keywords: distributed attacks, malicious software, web security

18 Risks to the public


 Peter G. Neumann

May 2008 SIGSOFT Software Engineering Notes , Volume 33 Issue 3
Publisher: ACM

Full text available:  Pdf (330.27 KB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 167, Citation

19 Privacy-safe network trace sharing via secure queries

 October 2008 NDA '08: Proceedings of the 1st ACM workshop on Network d
Publisher: ACM

Full text available:  Pdf (313.28 KB) Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 9, Citation Co

Privacy concerns relating to sharing network traces have traditionally be
which includes removal of sensitive data and IP address anonymization.
poor solution for data sharing that offers insufficient ...


Keywords: network traces, privacy, sanitization, sharing

20 A new intrusion detection system using support vector machines and

Latifur Khan, Mamoun Awad, Bhavani Thuraisingham

October 2007 The VLDB Journal — The International Journal on Very l
Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (514.93 KB) Additional Information: full citation, abstract, r

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 257, Citation

Whenever an intrusion occurs, the security and value of a computer syst
based attacks make it difficult for legitimate users to access various netw
occupying or sabotaging network resources and services. ...

Result pag

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 1 [Proceedings of the 9th annual conference on Genetic and evolutionary computation](#)
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July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

 Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

These proceedings contain the papers presented at the *9th Annual Genetic and Evolutionary Computation Conference (GECCO-2007)*, held in London, UK, July 7-11, 2007. The conference was held outside the US. This clearly proved ...

 2 [Network intrusion detection through Adaptive Sub-Eigenspace Modeling](#)
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Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, Liwu Chang

September 2007 Transactions on Autonomous and Adaptive Systems (TAAS)

Publisher: ACM

 Full text available: [Pdf](#) (1.93 MB)

 Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 74, Downloads (12 Months): 747, Citation

Recently, network security has become an extremely vital issue that becomes more and more important. In this article, we propose a novel network security solution that is capable of effectively defending our network information journeying through them. In this article, ...

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 3 [A framework for constructing features and models for intrusion detection](#)
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Wenke Lee, Salvatore J. Stolfo

November 2000 Transactions on Information and System Security (TISSEC)

Publisher: ACM

 Full text available: [Pdf](#) (187.03 KB)


 Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 585, Citation

Intrusion detection (ID) is an important component of infrastructure protection systems (IDSs) need to be accurate, adaptive, and extensible. Due to the complexities of today's network environments, ...

Key words: data mining, feature construction, intrusion detection

4 [Abstraction-based intrusion detection in distributed environments](#)

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 Transactions on Information and System Security (TI)
Publisher: ACM

Full text available:  Pdf (590.61 KB)


Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citation

Abstraction is an important issue in intrusion detection, since it not only heterogeneous systems, but also allows generic intrusion-detection model error-prone process and is not well supported ...

Key words: Cooperative information systems, heterogeneous systems, intrusion detection


5 [ACM SIGMOBILE Mobile Computing and Communications Review: Volume 1](#)

 October 2005 SIGMOBILE Mobile Computing and Communications Review
Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation


6 [Communications of the ACM: Volume 51 Issue 5](#)

 May 2008 Communications of the ACM
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.28 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 551, Downloads (12 Months): 1464, Citation


7 [ACM SIGPLAN Notices: Volume 40 Issue 8](#)

 August 2005 SIGPLAN Notices
Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation


8 [Communications of the ACM: Volume 51 Issue 1](#)

 January 2008 Communications of the ACM
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.97 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 665, Downloads (12 Months): 4496, Citation

9 [Proceedings of the conference on Design, automation and test in Europe](#)


 Donatella Sciuto
March 2008 DATE '08: Proceedings of the conference on Design, automatic
Publisher: ACM


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the DATE 08 Conference Proceedings. DATE combines the w systems design conference and Europe's leading international exhibition automation and test, from system level hardware and software ...

10 [A Graph Based Approach Toward Network Forensics Analysis](#)

 October 2008 Transactions on Information and System Security (TISSE)
Publisher: ACM

Full text available:  Pdf (1.08 MB)


Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 59, Citation

In this article we develop a novel graph-based approach toward network our approach is the evidence graph model that facilitates evidence prese reasoning. Based on the evidence graph, we propose a hierarchical ...


Key words: evidence graph, hierarchical reasoning, network forensics

11 [Profiling internet backbone traffic: behavior models and applications](#)

 Kua: Xu, Zhi-Li Zhang, Supratik Bhattacharyya

August 2005 SIGCOMM '05: Proceedings of the 2005 conference on Applic architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (850.20 KB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 248, Citatio


Recent spates of cyber-attacks and frequent emergence of applications e dynamics have made it imperative to develop effective techniques that c significant communication patterns from Internet traffic ...

Key words: behavior profiles, network monitoring, traffic measurement

Also published in:


October 2005 SIGCOMM Computer Communication Review Volume 35 Issue

12 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)

 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Ma Brian Zill

June 2006 MobiSys '06: Proceedings of the 4th international conference c and services

Publisher: ACM

Full text available:  Pdf (302.26 KB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 290, Citatio

We present a framework for monitoring enterprise wireless networks usin framework is called DAIR, which is short for *Dense Array of Inexpensive* the DAIR framework is useful for detecting ...


Key words: 802.11, denial-of-service, rogue AP, security, wireless netwo

What's new: finding significant differences in network data streams

Graham Cormode, S. Muthukrishnan

December 2005 IEEE/ ACM Transactions on Networking (TON) , Volume 1

Publisher: IEEE Press

Full text available:  Pdf (610.95 KB)

Additional Information: full citation, abstract, etc.

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 68, Citation


Monitoring and analyzing network traffic usage patterns is vital for many network managers. This paper presents a new approach to the problem of monitoring network traffic usage patterns. The problem is to provide network managers with information about changes about "what's new." Specifically, we focus on the ...

Keywords: change detection, data streams, deltoids, network data analysis

14 Understanding passive and active service discovery Genevieve Bartlett, John Heidemann, Christos Papadopoulos

October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on

Publisher: ACM

Full text available:  Pdf (468.40 KB)

Additional Information: full citation, abstract, etc.

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 148, Citation

Increasingly, network operators do not directly operate computers on the network. Instead, they rely on third parties for assessing network vulnerabilities to ensure compliance with policies and for tracking services that affect provisioning. ...


Keywords: active measurement, network reconnaissance, passive monitoring, situational awareness

15 A situatedness-based knowledge plane for autonomic networking

Thomas Builot, Rida Khatoun, Louis Hugues, Dominique Gatti, Lella Merghem

March 2008 International Journal of Network Management , Volume 18


Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (542.37 KB)

Additional Information: full citation, abstract, etc.



Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 128, Citation

IP networks, and particularly the Internet, were proposed to be a simple homogeneous communications. This implies that only basic control mechanisms are needed to manage the network. However, communication management has to be performed by network elements. Communication management has to be performed

16 Detecting distributed scans using high-performance query-driven visualization Kurt Stockinger, E. Wes Bethel, Scott Campbell, Eli Darl, Kesheng Wu

November 2006 SC '06: Proceedings of the 2006 ACM/IEEE conference on

Publisher: ACM

Full text available:  Html (2.35 KB),  Pdf (433.00 KB)

Additional Information: full citation, abstract, etc.

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 99, Citation


Modern forensic analytics applications, like network traffic analysis, perfect hypothesis testing, knowledge discovery and data mining on very large data sets, require a significant amount of time to reduce the time required for these operations is ...

Keywords: data mining, network connection analysis, network security, visual analytics

17 Querying the internet with PIER

Ryan Huebsch, Joseph M. Hellerstein, Nick Lanham, Boon Thau Lee, Scott J. Storer
September 2003 VLDB '2003: Proceedings of the 29th international conference on database management - Volume 29, Volume 29

Publisher: VLDB Endowment


Full text available:  Pdf (171.74 KB)

Additional Information: [full citation](#), [abstract](#), [table of contents](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 86, Citation (6 Weeks): 1, Citation (12 Months): 1


The database research community prides itself on scalable technologies. Traditionally do not excel on one important scalability dimension: the degree of parallelism. This limitation has hampered the impact of database technologies ...

18 A realistic simulation of internet-scale events

 Songjie Wei, Jelena Mirkovic

October 2006 value tools '06: Proceedings of the 1st international conference on value-based computing - Volume 1
methodologies and tools

Publisher: ACM

Full text available:  Pdf (309.34 KB)


Additional Information: [full citation](#), [abstract](#), [table of contents](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 86, Citation (6 Weeks): 1, Citation (12 Months): 1

Internet-scale security incidents are becoming increasingly common, and replicating and studying them in a controlled setting. Current network simulation models and testbed emulation cannot faithfully replicate ...


Keywords: distributed simulation, invasive software, simulation and modeling

19 Improved error reporting for software that uses black-box component

 Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. David, L. Chen, Emmett Witchel

June 2007 PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference on programming language design and implementation

Publisher: ACM

Full text available:  Pdf (345.48 KB)

Additional Information: [full citation](#), [abstract](#), [table of contents](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 215, Citation (6 Weeks): 1, Citation (12 Months): 1

An error occurs when software cannot complete a requested action as a result of an input, configuration, or environment. A high-quality error report allows a developer to correct the problem. Unfortunately, the quality of ...

Keywords: classification, error report, machine learning, profiling, software

Also published in:

June 2007 SIGPLAN Notices Volume 42 Issue 6

20 Is sampled data sufficient for anomaly detection?

Jianning Mai, Chen-Nee Chuah, Ashwin Sridharan, Tao Ye, Hui Zang



October 2006 | MC '06: Proceedings of the 6th ACM SIGCOMM conference on
Publisher: ACM

Full text available: Pdf (1.83 MB)

Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 175, Citation

Sampling techniques are widely used for traffic measurements at high lin
resources. Traditionally, sampled traffic data is used for network manage
matrix estimations, but recently it has also been used ...

Keyw ords: anomaly detection, portscan, sampling, volume anomaly

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 21 [Proceedings of the 2005 ACM/SIGDA 13th international symposium](#)
[programmable gate arrays](#)

Herman Schmit, Steve Wilton

February 2005 FPGA '05: Proceedings of the 2005 ACM/SIGDA 13th international symposium on Field-programmable gate arrays

Publisher: ACM

 Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

On behalf of the organizing and program committees, welcome to *FPGA . Thirteenth International Symposium on Field-Programmable Gate Arrays* symposium features papers and posters describing the latest advances in architectures, ...

 22 [Bitmap algorithms for counting active flows on high speed links](#)

Cristian Estan, George Varghese, Mike Fisk

October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on measurement

Publisher: ACM

 Full text available: Pdf (330.81 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 66, Citation

This paper presents a family of bitmap algorithms that address the problem of the number of distinct header patterns (flows) seen on a high speed link can be used to detect DoS attacks and port scans, and to solve measure

Keywords: counting flows, network traffic measurement

 23 [Data reduction for the scalable automated analysis of distributed data](#)
 Michael Bailey, Evan Cooke, Farnam Jahanian, Niels Provos, Karl Rosenfeld
 October 2005 IMC '05: Proceedings of the 5th ACM SIGCOMM conference on measurement

Publisher: USENIX Association

 Full text available: Pdf (1.82 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 39, Citation

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Threats to the privacy of users and to the availability of Internet infrastructure evolving at a tremendous rate. To characterize these emerging threats, it must effectively balance monitoring the large number of hosts needed to

24 [Bitmap algorithms for counting active flows on high-speed links](#)

Cristian Estan, George Varghese, Michael Fisk

October 2006 IEEE/ ACM Transactions on Networking (TON) , Volume 14

Publisher: IEEE Press

Full text available:  Pdf (952.17 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 78, Citation

This paper presents a family of bitmap algorithms that address the problem of the number of distinct header patterns (flows) seen on a high-speed link can be used to detect DoS attacks and port scans and to solve measurement ...

Keywords: counting distinct elements, traffic measurements

25 [A data mining approach for analysis of worm activity through automatic signature generation](#)



October 2008 AI Sec '08: Proceedings of the 1st ACM workshop on Workshop on

Publisher: ACM

Full text available:  Pdf (787.79 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 10, Citation

This paper proposes a novel framework to automatically discover and analyze network traffic generated by computer worms and other anomalous behaviors that interfere with solicited traffic monitoring system. Network packets are analyzed by an intrusion detection ...

Keywords: automatic signature generation, data mining, honeypots, intrusion detection, malware identification


26 [Monitoring and early warning for internet worms](#)



Cliff Changchun Zou, Lixin Gao, Weibo Gong, Don Towsley

October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer communications security

Publisher: ACM

Full text available:  Pdf (227.83 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 178, Citation

After the Code Red incident in 2001 and the SQL Slammer in January 2003, it is clear that a simple self-propagating worm can quickly spread across the Internet and cause most vulnerable computers before people can take effective countermeasures. This paper ...

Keywords: early detection, monitoring, worm propagation

Dendritic cells for SYN scan detection

Julie Greensmith, Uwe Aickelin

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic evolutionary computation

Publisher: ACM

Full text available:  Pdf (2.87 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Citation

Artificial immune systems have previously been applied to the problem of intrusion detection. The aim of this research is to develop an intrusion detection system that mimics the function of Dendritic Cells (DCs). DCs are antigen presenting cells and

Keywords: artificial immune systems, dendritic cells, port scans

28 Towards NIC-based intrusion detection

M. Otey, S. Parthasarathy, A. Ghoting, G. Li, S. Naravula, D. Panda

August 2003 KDD '03: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM

Full text available:  Pdf (103.59 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 83, Citation

We present and evaluate a NIC-based network intrusion detection system. The detection at the NIC makes the system potentially tamper-proof and is not extensible to work in a distributed setting. Simple anomaly detection and detection ...


Keywords: NICs, data mining, network interface cards, network intrusion detection, network security

29 Fast hash table lookup using extended bloom filter: an aid to network

Haoyu Song, Sarang Dharmapurikar, Jonathan Turner, John Lockwood

August 2005 SIGCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  Pdf (338.54 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 207, Citation



Hash tables are fundamental components of several network processing applications, including route lookup, packet classification, per-flow state and network monitoring. These applications, which typically occur in the

Keywords: forwarding, hash table

Also published in:



October 2005 SIGCOMM Computer Communication Review Volume 35 Issue

30 Semi-supervised approach to rapid and reliable labeling of large data

-  György J. Simon, Vipin Kumar, Zhi-Li Zhang
 August 2008 KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining
 Publisher: ACM
 Full text available:  Pdf (274.82 KB) Additional Information: full citation, abstract, reference terms
 Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 103, Citation



In this paper, we propose a method, where the labeling of the data set is in a semi-supervised manner with user-specified guarantees about the quality of labeling. In our scheme, we assume that for each class, we have some high quality training data.

Key words: labeling data sets, performance guarantees, semi-supervised learning



- 31 [Can machine learning be secure?](#)
 Marco Barrero, Blake Nelson, Russell Sears, Anthony D. Joseph, J. D. Tygar
 March 2006 ASI ACCS '06: Proceedings of the 2006 ACM Symposium on Information, Computer and Communications Security
 Publisher: ACM
 Full text available:  Pdf (343.53 KB) Additional Information: full citation, abstract, reference terms
 Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 198, Citation

Machine learning systems offer unparalleled flexibility in dealing with evolving varieties of applications, such as intrusion detection systems and spam e-mail filtering. However, machine learning algorithms themselves can be a target of attack.

Key words: adversarial learning, computer networks, computer security, intrusion detection, machine learning, security metrics, spam filters, statistical learning

- 32 [Reverse engineering the Internet](#)
 Neil Spring, David Wetherall, Thomas Anderson
 January 2004 SIGCOMM Computer Communication Review, Volume 34 Issue 1
 Publisher: ACM
 Full text available:  Pdf (125.88 KB) Additional Information: full citation, abstract, reference terms
 Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 82, Citation

To provide insight into Internet operation and performance, recent efforts have measured various aspects of the Internet, developing and improving measurement techniques in the process. In this paper, we argue that these independent advances can be leveraged by the research community ...

- 33 [How healthy are today's enterprise networks?](#)
 Saikat Guha, Jaideep Chandrasekar, Nina Taft, Konstantina Papagiannaki
 October 2008 IMC '08: Proceedings of the 8th ACM SIGCOMM conference on Internet measurement
 Publisher: ACM
 Full text available:  Pdf (401.09 KB) Additional Information: full citation, abstract, reference terms
 Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 31, Citation

In this paper we take a look at the health of a typical enterprise network metric based on the fraction of useful flows generated by endhosts. Flow non-useful are those that explicitly fail or else do not elicit a response from

Keywords: enterprise, environment awareness, mobility, network health

- 34 [New directions in privacy-preserving anomaly detection for network traffic](#)
October 2008 NDA '08: Proceedings of the 1st ACM workshop on Network data anonymization

Publisher: ACM

Full text available:  [Pdf](#) (288.83 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 11, Citation

The enormous amount of traffic data gathered by network monitoring systems poses a serious threat on the privacy of the network customers. To face this issue, we promote a new approach to privacy-preserving network monitoring. With


Keywords: anomaly detection, counting bloom filters, privacy-preserving network measurement

- 35 [Mining block correlations to improve storage performance](#)

Zhenmin Li, Zhifeng Chen, Yuanyuan Zhou

May 2005 Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (1.02 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 164, Citation

Block correlations are common semantic patterns in storage systems. They have been exploited for improving the effectiveness of storage caching, prefetching and disk scheduling. Unfortunately, information about block correlations is often unavailable ...


Keywords: Storage management, block correlations, file system management methods and algorithms

- 36 [P-Soup: a system for streaming queries over streaming data](#)

Sirish Chandrasekaran, Michael J. Franklin

August 2003 The VLDB Journal — The International Journal on Very Large Databases, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.


Full text available:  [Pdf](#) (267.99 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 52, Citation

Abstract: Recent work on querying data streams has focused on systems where arriving data is processed and continuously streamed to the user in real time. In emerging applications, however, ad hoc queries and/or intermittent con-

Keywords: Disconnected operation, Query-data duality, Stream query p

37 [Detecting energy-greedy anomalies and mobile malware variants](#)

 Hahnsang Kim, Joshua Smith, Kang G. Shin

June 2008 *MobiSys '08: Proceeding of the 6th international conference on systems, applications, and services*

Publisher: ACM

Full text available:  Pdf (565.81 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 183, Citation

Mobile users of computation and communication services have been rapidly adopting battery-powered mobile handhelds, such as PocketPCs and Smartphones. However, the limited battery-lifetime of these devices restricts their port

Keywords: power consumption history, power signature

38 [Streaming queries over streaming data](#)

Sirish Chandrasekaran, Michael J. Franklin

August 2002 *VLDB '02: Proceedings of the 28th international conference on Data Bases*


Publisher: VLDB Endowment

Full text available:  Pdf (205.96 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Citation C

Recent work on querying data streams has focused on systems where new data is processed and continuously streamed to the user in real-time. In emerging applications, however, ad hoc queries and/or intermittent con require ...

39 [Efficient web browsing on handheld devices using page and form su](#)

 January 2002 *Transactions on Information Systems (TOIS)* , Volume 20 I

Publisher: ACM

Full text available:  Pdf (4.47 MB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 185, Citation

We present a design and implementation for displaying and manipulating on small handheld devices such as personal digital assistants (PDAs), or We introduce methods for summarizing parts of Web pages and HTML fo Web ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld mobile computing, summarization, ubiquitous computing, wireless comp

40 [On the robustness of router-based denial-of-service \(DoS\) defense s](#)

 Ying Xu, Roch Guérin

July 2005 *SI GCOMM Computer Communication Review* , Volume 35 Issue :

Publisher: ACM

Full text available:  Pdf (441.29 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 106, Citation

This paper focuses on "router-based" defense mechanisms, and whether provide effective solutions to network Denial-of-Service (DoS) attacks. R defenses operate either on traffic aggregates or on individual flows, and shown, ...

Keyw ords: denial-of-service, router-based defense

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- 41 [Defending against hitlist worms using network address space randomization](#)
S. Antonatos, P. Akrividis, E. P. Markatos, K. G. Anagnostakis
November 2005 WORM '05: Proceedings of the 2005 ACM workshop on Rapid
Publisher: ACM

 Full text available: Pdf (433.30 KB) Additional Information: [full citation](#), [abstract](#), [related items](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 82, Citation

Worms are self-replicating malicious programs that represent a major security threat on the Internet, as they can infect and damage a large number of vulnerable hosts. Current human responses are unlikely to be effective. Sophisticated worms ...

Keywords: internet worms, network security, randomization, traffic analysis

- 42 [Packet vaccine: black-box exploit detection and signature generation](#)
XiaoFeng Wang, Zhuowei Li, Jun Xu, Michael K. Reiter, Chongkyung Kim, Jor
October 2006 CCS '06: Proceedings of the 13th ACM conference on Computer
security
Publisher: ACM

 Full text available: Pdf (451.38 KB) Additional Information: [full citation](#), [abstract](#), [related items](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 132, Citation

In biology, a *vaccine* is a weakened strain of a virus or bacterium that is injected into the body for the purpose of stimulating antibody production. Inspired by this vaccine mechanism that randomizes address-like ...

Keywords: black-box defense, exploit detection, signature generation, network security

- 43 [Weighting versus pruning in rule validation for detecting network and intrusion anomalies](#)
Gaurav Tandon, Philip K. Chan
August 2007 KDD '07: Proceedings of the 13th ACM SIGKDD international conference on
discovery and data mining
Publisher: ACM

 Full text available: Pdf (791.25 KB) Additional Information: [full citation](#), [abstract](#), [related items](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 179, Citation

For intrusion detection, the LERAD algorithm learns a succinct set of com

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detecting anomalies, which could be novel attacks. LERAD validates the *held-out* validation set and removes rules that cause ...

Keywords: anomaly detection, machine learning, rule pruning, rule weight

44 [A generic language for application-specific flow sampling](#)

 Harsha V. Madhyastha, Balachander Krishnamurthy

March 2008 *SI GCOMM Computer Communication Review*, Volume 38 Issue 1
Publisher: ACM

Full text available:  Pdf (1.78 MB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 116, Citation


Flow records gathered by routers provide valuable coarse-granularity traffic measurement-related network applications. However, due to high volume, they need to be sampled before they are gathered. Current ...

Keywords: application-specific traffic monitoring, flow sampling, language

45 [A multifaceted approach to understanding the botnet phenomenon](#)

 Moheeb Abu Rajab, Jay Zarfoss, Fabian Monrose, Andreas Terzis

October 2006 *IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet Measurement*
Publisher: ACM

Full text available:  Pdf (699.05 KB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 99, Downloads (12 Months): 507, Citation


The academic community has long acknowledged the existence of malicious traffic, but very little is known about the behavior of these distributed computing resources. Our knowledge of botnet behavior has never been methodically ...

Keywords: botnets, computer security, malware, network security

46 [Bench-style network research in an Internet Instance Laboratory](#)

 Paul Barford, Larry Landweber

July 2003 *SI GCOMM Computer Communication Review*, Volume 33 Issue 1
Publisher: ACM


Full text available:  Pdf (567.36 KB)

Additional Information: [full citation](#), [abstract](#), [ref](#)


Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 11, Citation

Network researchers employ a variety of experimental methods and tool techniques, simulators, and widely deployed measurement infrastructure. However, the overall scope of network research may be limited ...

47 [Evaluating Network Processors using NetBench](#)

 Gokhan Memik, William H. Mangione-Smith

May 2006 *Transactions on Embedded Computing Systems (TECS)*, Volume 6 Issue 1
Publisher: ACM

Full text available:  Pdf (547.53 KB)

Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 97, Citation

The Network Processor market is one of the fastest growing segments of today. In spite of this increasing market importance, there does not exist compare the performance of different Network Processor ...


Keywords: Embedded systems, benchmarking, network processors

48 [Policies for sharing distributed probabilistic beliefs](#)

Christopher Leckie, Ramamohanarao Kotagiri

February 2003 ACSC '03: Proceedings of the 26th Australasian computer
Volume 16 , Volume 16

Publisher: Australian Computer Society, Inc.


Full text available:  Pdf (81.53 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 17, Citation C

In this paper, we present several general policies for deciding when to st between agents for distributed monitoring. In order to evaluate these po an application in network intrusion detection as a ...

Keywords: multi-agent systems, network intrusion detection

49 [Proceedings of the 2007 GECCO conference companion on Genetic computation](#)

 Peter A. N. Bosman, Tina Yu, Anikó Ekárt


July 2007 GECCO '07: Proceedings of the 2007 GECCO conference compa evolutionary computation

Publisher: ACM

Additional Information: [full citation](#), [appendices and supplements](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

50 [Agile and scalable analysis of network events](#)

 Mike Fisk, George Varghese

November 2002 I MW '02: Proceedings of the 2nd ACM SIGCOMM Workshop


Publisher: ACM

Full text available:  Pdf (731.48 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 29, Citation C



The state of the art in general purpose software systems for large-scale progressed much past the venerable *libpcap*. In this paper we describe a that provides a scalable, flexible system for ...

51 [Analysis of active intrusion prevention data for predicting hostile activ](#)

 Ido Green, Izvi Raz, Moshe Zviran

April 2007 Communications of the ACM , Volume 50 Issue 4

Publisher: ACM

Full text available:  Html (29.51 KB),  Pdf (231.59 KB) Additional Information: [full citation](#), [terms](#)

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Using a generic and reliable model to anticipate future attack scenarios.

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